

Lorn J. MacIlravie
Mobile: (307) 696-7926
risingedgeservices@gmail.com
<http://www.risingedgeservices.com>

PROFILE

Electrical controls, automation, and communications
Sales, supervisory, and business experience
Electrical Instructor
Oil and gas, and coal power plant, experience
Master Electrician
Allen-Bradley and Siemens PLCs
Programming: Python, JavaScript, Structured Text
Bilingual: English and Spanish
Microsoft Office, CAD, electrical software, etc.

WORK HISTORY

2014 to Present - Rising Edge Services, LLC

Gillette, Wyoming

Position: **Owner**

Description: Training, Consulting, Programming.

09/2012 to 05/2017 - Basin Electric Power Cooperative - Dry Fork Station

Gillette, Wyoming

Position: **Electrical and Instrumentation Technician**

Description: Preventative maintenance and troubleshooting. Worked on electrical controls, variable speed drives, CEMS, instrumentation, process gas monitors, communications equipment, valves, lighting, protective relays, breakers, Ovation DCS, coal conveyors, and PLCs. Read and used electrical diagrams and technical manuals. Used multimeters, oscilloscopes, electrical calibrators, signal generators, and power quality analyzers. And, used various hand tools, power tools, computers, lifting equipment, scaffolding, conduit benders, and ladders to troubleshoot, repair, and maintain instrumentation and electrical systems in a 450 MW coal power plant. Hauled out the trash, changed light bulbs, and cleaned the shop. Maintained accurate records of work. Used Microsoft Word, Excel, and Outlook. Trained coworkers on NFPA 70E standards and electrical safety.

9/2008 to 05/2017 - Gillette College

Gillette, Wyoming

Position: **Adjunct Instructor, Part-Time**

Description: Taught electrical apprenticeship courses, based on the NCCER program, Mike Holt Electrical Books, and the National Electrical Code (NEC).

04/2010 to 9/2012 - Weatherford International, Ltd.

Gillette, Wyoming

Position: **Electrical Supervisor and Technical Sales**

Description: Supervised electrical employees in the Gillette, Wyoming area. Sold oilfield controls, variable speed drives, and pumping equipment. Provided sales and technical support for the Production Optimization product line. Served as the Master of Record for Weatherford in

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Wyoming and North Dakota. Planned and installed electrical projects. Designed electrical installations, created accurate diagrams, and programmed PLCs for water injection plants. Worked on reciprocating rod lift, hydraulic lift, gas lift, submersible pumps and motors, progressive cavity pumps, variable speed drives (VSD, VFD), polymer injection facilities, flow measurement, and other oilfield equipment.

11/2008 to 2/2010 - Luca Technologies, Inc.

Gillette, Wyoming

Position: **Field Operations Project Lead**

Description: Supervised electrical and gas measurement contractors, maintained and installed electrical equipment. Worked on well restoration systems in Wyoming and Utah including, water injection pumps, chemical pumps, flow controls, water and gas flow measurement, and power distribution systems.

09/2004 to 11/2008 - Petro-Canada Resources (USA) Inc.

Gillette, Wyoming

Position: **Electrical Supervisor**

Description: Supervised electrical and gas measurement contractors. Integrated multiple new and legacy oil and gas fields into one ABB Totalflow SCADA system. Designed and supervised the installation of safe Class 1, Div. 1 & 2, power and control panels for oil and CBM wells. Worked with the local electric cooperative to obtain electrical power for projects. Designed and supervised the installation, modification, and commissioning of power distribution systems in new and producing fields. Troubleshoot electrical and instrumentation problems in the field using DMMs, Meggers (Insulation Testing), time domain reflectometers (TDRs), pressure gauges, flow meters, temperature meters, utility locators, and spectrum analyzers. Calibrated and maintained Totalflow, Barton, and paper chart measurement equipment. Witnessed the calibrations of sales meters and gas chromatographs. Witnessed lease inspections by the BLM and State of Wyoming. Programmed Siemens and Allen Bradley PLCs, Totalflow meters, and other power, liquid, and gas measurement devices. Worked on equipment at LACT units, lift stations, weather monitoring sites, compressor stations, and telemetry systems. Began and completed an online MBA in Management at the University of Mary while working full time.

Et cetera

The years between 1997 and 2004 were spent learning the electrical trade in Wyoming and Colorado. 1992 to 1997 were spent working as a pastry cook in Santa Fe, New Mexico and at resorts in Vail and Aspen, Colorado.

FORMAL EDUCATION

University of Mary, Bismarck, North Dakota, MBA in Management

St. Olaf College, Northfield, Minnesota, BA in History

Shattuck-St. Mary's School, Faribault, Minnesota, Diploma, High School

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PROFESSIONAL DEVELOPMENT

Danfoss

VLT® Service Partner Certification Course, Loves Park, Illinois, August 2017

AVO Training Institute

Circuit Breaker Maintenance, Low Voltage, Norristown, Pennsylvania, December 2015

Microprocessor-Based Relay Testing (Industrial), Dallas, Texas, October 2015

Teledyne Monitor Labs, CEMS, Emissions Monitors, Gillette, Wyoming, May 2015

Trane, Tracer Summit Advanced Operation Course, Gillette, Wyoming, May 2014

e-Hazard, NFPA 70E, Train the Trainer Course for Low and High Voltage, Gillette, Wyoming, July 2013

Emerson Controls (Ovation DCS) OVS-215-WIN, Pittsburgh, PA, January 2013

Control MicroSystems (ScadaPack) TelePACE, RealFLO, and Hardware Training, Denver, CO, December 2010

Yaskawa America, Inc.

Hands-On Troubleshooting for AC Drives, Waukegan, IL, September 2010

Weatherford International, Ltd.

Supervisory Development Program, Denver, CO, August, 2010

Human Resources for the Non-HR Manager, Denver, CO, October 2011

Colorado Experiment Engineering Station Inc. (CEESI)

Advanced Natural Gas Measurement Training Course, Estes Park, CO, July 2008

Fundamentals of Natural Gas Measurement Training Course, Estes Park, CO, July 2008

Safety Courses: Current First Aid/CPR/AED, H2S, etc.

PLC Courses: Allen Bradley RSLogix 5000, Siemens SIMATIC S7, and ScadaPack

Flow Measurement Courses: ABB Totalflow, WinCCU, PCCU, 6400 Series Flow Meters, Emerson, Foxboro, Control Micro Systems

Electrical Apprenticeship: I worked for licensed electrical contractors in Colorado and Wyoming. I took the state required apprenticeship courses at Gillette College.

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OTHER

Master Electrician: CO, TX, ND, and WY

MSHA Surface New Miner

Amateur Extra Class (Ham Radio), and Volunteer Examiner, WY7LM

TWIC

US Passport

Web site: <http://www.risingedgeservices.com/index.html>